

Notice of Allowability

Application No.

10/796,649

Applicant(s)

TUTTLE ET AL.

Examiner

Art Unit

Lee Y Quach

2885

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/17/07.
2. ☒ The allowed claim(s) is/are 1-7,9,11-14, 30-36,42-58,61-80,83-93, and 96-106.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


Y Quach Lee
Primary Examiner
Art Unit 2885

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1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Terry S. Callaghan on June 21, 2007.

In the Claim:

Claim 101. Line 2, "30" has been changed to --87--.

2. The following is an examiner's statement of reasons for allowance:

Claim 1 is allowed because the prior art individually or in combination does not teach the combination of at least one light source comprising a central optical axis, an optics block comprising at least one collimating portion and configured to direct substantially all of the light rays to define a horizontal beam pattern directed from approximately 0 degrees to approximately 60 degrees outboard away from a controlled vehicle with respect to the central axis and the optics block further configured to direct substantially all of the light rays to define a vertical beam pattern directed from approximately -8 degrees to approximately 10 degrees with respect to the central axis. Claims 2 to 7, 9 and 11 to 14 further limit claim 1 and as such are also allowed.

Claim 30 is allowed because the prior art individually or in combination does not teach the combination of at least one light source comprising a central optical axis, an optics block comprising a first collimating portion, a first deviation portion, a second collimating portion and a second deviator portion with the optics block configured to direct substantially all of the light rays to define a horizontal beam pattern directed from approximately 0 degrees to approximately 60 degrees outboard away from a controlled vehicle with respect to the central axis. Claims 31 to 36 and 42 to 51 further limit claim 30 and as such are also allowed.

Claim 52 is allowed because the prior art individually or in combination does not teach the combination of at least one light source comprising a central optical axis, an optics block comprising at least one collimating portion and configured to direct substantially all of the light rays to define a vertical beam pattern directed from approximately -8 degrees to approximately

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10 degrees with respect to the central axis. Claims 53 to 58 and 61 to 73 further limit claim 52 and as such are also allowed.


Claim 74 is allowed because the prior art individually or in combination does not teach the combination of at least one light source comprising a central optical axis, an optics block comprising at least one deviator portion and configured to direct substantially all of the light rays to define a horizontal beam pattern directed from approximately 0 degrees to approximately 60 degrees outboard away from a controlled vehicle with respect to the central axis and the optics block further configured to direct substantially all of the light rays to define a vertical beam pattern directed from approximately -8 degrees to approximately 10 degrees with respect to the central axis. Claims 75 to 80 and 83 to 86 further limit claim 74 and as such are also allowed.

Claim 87 is allowed because the prior art individually or in combination does not teach the combination of at least one light source comprising a central optical axis, an optics block comprising at least one deviator portion and configured to direct substantially all of the light rays to define a vertical beam pattern directed from approximately -8 degrees to approximately 10 degrees with respect to the central axis. Claims 88 to 93 and 96 to 106 further limit claim 87 and as such are also allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Y Quach Lee whose telephone number is 571-272-2373. The examiner can normally be reached on Monday to Thursday from 8:30 am to 2:30 pm.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the customer service 571-272-2815.

Y. Q.
June 21, 2007


Y Quach Lee
Primary Examiner
Art Unit 2885